Web links for background information on the topics of CIPM MRA, SIM, and the CMCs

The International Committee for Weights and Measures (CIPM) Mutual Recognition Arrangement (MRA) http://www.bipm.org/en/cipm-mra/cipm-mra-text/

The outcomes of the CIPM MRA are the internationally recognized (peer-reviewed and approved) Calibration and Measurement Capabilities (CMCs) of the participating institutes. Approved CMCs are publicly available in the CIPM MRA database (CIRCDB).

The three fundamental elements leading to approval of an institute's CMCs are:

- 1. participation by the institute in reviewed and approved scientific comparisons;
- 2. operation by the institute of an appropriate and approved quality management system;
- 3. international peer-review (regional and inter-regional) of claimed calibration and measurement capabilities.

Calibration and Measurement Capability Approval Process

http://www.bipm.org/en/cipm-mra/approval-process.html

Regional Metrology Organizations (RMOs) http://www.bipm.org/en/worldwide-metrology/regional/

The RMO of the Western Hemisphere: *The Inter-American Metrology System (SIM)* http://www.bipm.org/en/worldwide-metrology/regional/sim.html

Structure of the SIM Technical Committee and Metrology Working Groups

http://www.sim-metrologia.org.br/tc.php

STRUCTURE OF THE SIM TECHNICAL COMMITTEE (TC)

The TC Chair serves as the SIM representative to the Joint Committee of Regional Bodies (JCRB); and consults with the President and Council in regard to technical matters in metrology. As a permanent body of SIM Council, the main attributions of SIM Technical Committee are to coordinate activities of the Metrology Working Groups, to foster the development of services to satisfy regional demands, to promote cooperation between SIM and the BIPM to carry out key and supplementary comparisons called for in the CIPM MRA, to promote cooperation between SIM and the International Organization of Legal Metrology (OIML) as well as other legal metrology organizations, and to supervise SIM comparisons, taking the necessary measures to expedite them in case of delays.

Chair: Claudia Santo, LATU/Uruguay Deputy Chair: Alan Steele, NRC/Canada

The Technical Committee (TC) operates through Metrology Working Groups (MWGs), which are organized in parallel with the "Convention du Mètre" Consultative Committees.

SIM Metrology Working Groups (MWGs)

MWG 1:

Electricity and Magnetism Chair: Lucas di Lillo INTI/Argentina

MWG 3: Thermometry Chair: Edgar Méndez CENAM/ México

MWG 5: Time and Frequency Chair: Raúl Solís

CENAMEP/ Panamá

MWG 7:

Mass & Related Quantities Chair: Fernando Kornblit INTI/Argentina

MWG 9:

Acoustics, Ultrasound and Vibration

Chair: Gustavo Ripper INMETRO/Brazil

MWG 11:

Legal Metrology Working Group

Chair: Emilio Löbbe INTI/Argentina

MWG 13:

Statistics and Uncertainty Chair: Antonio Possolo

NIST/USA

MWG 2:

Photometry and Radiometry Chair: María Nadal Laracuente

NIST/USA

MWG 4: Length

Chair: Karina Bastida INTI/ Argentina

MWG 6:

Ionizing Radiation and Radioactivity

Chair: Lisa R. Karam NIST / USA

MWG 8:

Chemistry (Amount of Substance)

Chair Valnei Da Cunha INMETRO/Brazil

MWG 10:

Flow and Volume Chair: Roberto Arias CENAM / Mexico

MWG 12: Quality System

Chair: Gabriela de la Guardia

CENAMEP/Panamá